

Lin  
10/665,040

In the Claims

1. (currently amended) A brake rotor comprising:

a central mounting portion for mounting the brake rotor on a hub, said mounting portion having an annular wall having outer surfaces parallel to a central axis of said central mounting hub;

a first annular braking surface and a second annular braking surface, wherein each braking surface includes an inner diameter and an outer diameter;

radially extending brake surface reinforcing ribs located between said first and second annular braking surfaces and between inner and outer diameters of the braking surfaces;

a bridge in the form of a ~~solid~~ radially extending wall completely surrounding said central mounting portion between the annular wall of said central mounting portion and the [[an]] inner diameter of one of said first and second [[the]] annular braking surfaces; and

a plurality of radially extending bridge reinforcing ribs mounted on said bridge extending from between an inner diameter and said annular wall to said outer diameter of said one of said first and second annular braking surfaces between said radially extending brake reinforcing ribs, wherein the central mounting portion, the braking surfaces, the bridge and the brake reinforcing and bridge reinforcing ribs are formed in a single piece and said brake reinforcing and bridge reinforcing ribs extend into a space between said first and second annular braking surfaces.

2-3. (canceled)

4. (currently amended) The brake rotor according to claim 1 ~~[[3]]~~, wherein said braking surfaces, bridge, and brake and bridge reinforcing ribs are not made up of multiple pieces;

Lin  
10/665,040

~~extend between brake surface reinforcing ribs located between said first and second annular braking surfaces, said brake surface reinforcing ribs extending between inner and outer diameters of said first and second annular braking surfaces.~~

5. (canceled)

6. (original) The brake rotor according to claim 1, wherein either or both of the annular braking surfaces includes one or more slots.

7. (original) The brake rotor according claim 1, further comprising one or more pairs of openings, each pair of openings allowing communication between the first annular braking surface and the second annular braking surface.

8. (previously presented) The rotor according to claim 1, further comprising a hat portion disposed in the central mounting portion and adapted for mounting the rotor to a vehicle.

9. (currently amended) The rotor according to claim 1, wherein a first opening allows the first annular surface to fluidly ~~fluid~~ communicate with a vent.

10. (original) The rotor according to claim 1, wherein the central mounting portion comprises a hat having a plurality of openings for receiving fasteners from the hub or a plurality of fasteners for fastening a wheel to the hub and rotor combination.

11. (original) The rotor according to claim 1, further comprising a cover for covering all or a portion of the bridge.

12. (original) The rotor according to claim 11, wherein the cover comprises a circular piece of material having a central opening corresponding in size to the central mounting portion of the rotor, wherein upon mounting of the cover onto the rotor, the central opening receives the central mounting portion of the rotor.

13. (original) The rotor according to claim 12, wherein the cover includes a plurality of fastening openings for receiving fasteners for fastening the cover to the rotor.

Lin  
10/665,040

14. (currently amended) A brake rotor comprising:

a central mounting portion for mounting the brake rotor onto a hub;

a first annular braking surface and a second annular braking surface, wherein each braking surface includes an inner diameter and an outer diameter;

a plurality of flow channels provided between the first annular braking surface and the second annular braking surface;

a bridge in the form of a solid radially extending wall completely surrounding and perpendicular to an outer surface of said central mounting portion extending between the central mounting portion and said ~~[[an]]~~ inner diameter of one of said braking surfaces; and

a plurality of radially extending ribs positioned on the bridge and extending into the flow channels between said first and second annular braking surfaces, wherein the central mounting portion, the braking surfaces, the bridge and the ribs are formed in a single piece.

15. (original) The brake rotor according to claim 14, wherein each flow channel includes at least one wall.

16. (original) The brake rotor according to claim 15, wherein the at least one wall comprises one of the plurality of ribs.

17. (canceled)

18. (previously presented) The brake rotor according to claim 14, further comprising a plurality of openings positioned in the bridge between said ribs.

19. (original) The rotor according to claim 14, further comprising a cover for covering all or a portion of the bridge.

20. (original) The rotor according to claim 19, wherein the cover comprises a circular piece of material having a central opening corresponding in size to the central mounting

Lin  
10/665,040

portion of the rotor, wherein upon mounting of the cover onto the rotor, the central opening receives the central mounting portion of the rotor.

21. (original) The rotor according to claim 20, wherein the cover includes a plurality of fastening openings for receiving fasteners for fastening the cover to the rotor.

22-29. (canceled)